	Application No.	Applicant(s)	
	10/054 649	GOH ET AL.	
Notice of Allowability	10/054,618 Examiner	Art Unit	
	Tina M Lin	2874	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. THIS	
1. This communication is responsive to amendment received	<u>25 June 2004</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .			
3. The drawings filed on 22 January 2002 are accepted by the	e Examiner.		
4.			
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 98), 7. ☐ Examiner's Amendr		

Art Unit: 2874

Applicant's arguments filed on 25 June 2004 have been fully considered. Claims 1-18 are therefore allowed with the additional limitations included. Claims 19-20 have been allowed for the reasons set forth in the pervious Office action, mailed 26 March 2004.

Examiner's Statement Of Reasons For Allowance

The following is an examiner's statement of reasons for allowance: The prior art of record in this application fails to disclose or reasonably suggest an interferometer using an optical waveguide with an embedded core that has a refractive index higher than that of the cladding into a cladding substrate, where the interferomenter has two types of annealing regions provided near the optical waveguide where the optical path length of the waveguide is trimmed by permanently changing the effective refractive index of the optical waveguide by annealing the two annealing regions. The closest prior art of record in this application is U.S. Patent 6,084,050 to Ooba et al. discloses an interferometer with an optical coupler, a plurality of optical waveguides connected to the coupler and two types of thin film heater regions that are near the optical waveguide with a trimmed then film heater region to change the optical path length. However, Ooba et al. fails to disclose the chaning of the path length. Another close prior art of record is U.S. Patent 6,546,161 to Okuno et al. Okuno et al. discloses that the heat is increased to change the refractive index and therefore changing the optical path length through a thermooptic phase shifter, also referred to as a thin film heater. But Okuno et al. disclose the change of the path length by using a thermo-optic effect. The thermo-optic effect only changes the refractive index when heat is applied. It does not create a permanent change in the refractive index, such as annealing does, as claimed and amended by applicant. Therefore, claims 1-18 are allowed.

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Claims 19-20 are allowed for the reasons set forth in the previous Office action, mailed 26 March 2004.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tina M Lin whose telephone number is (571) 272-2352. The examiner can normally be reached on Monday-Friday 8:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).